

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P383521

Luminaire Tested: **GLEON-SA8A-735-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383521  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA8A-735-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34549.2 lumens  
Efficiency: N/A  
Efficacy: 134.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

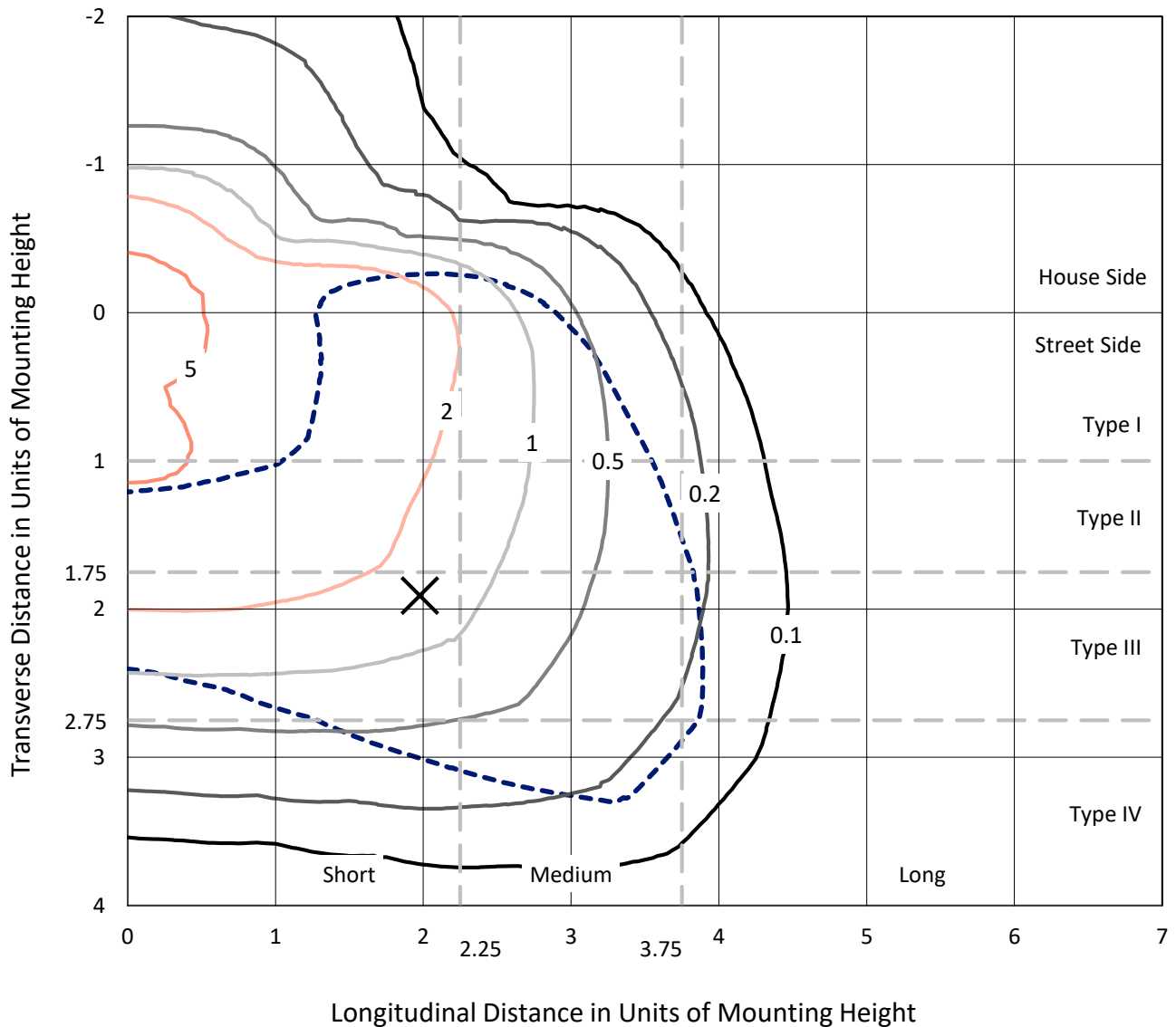
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

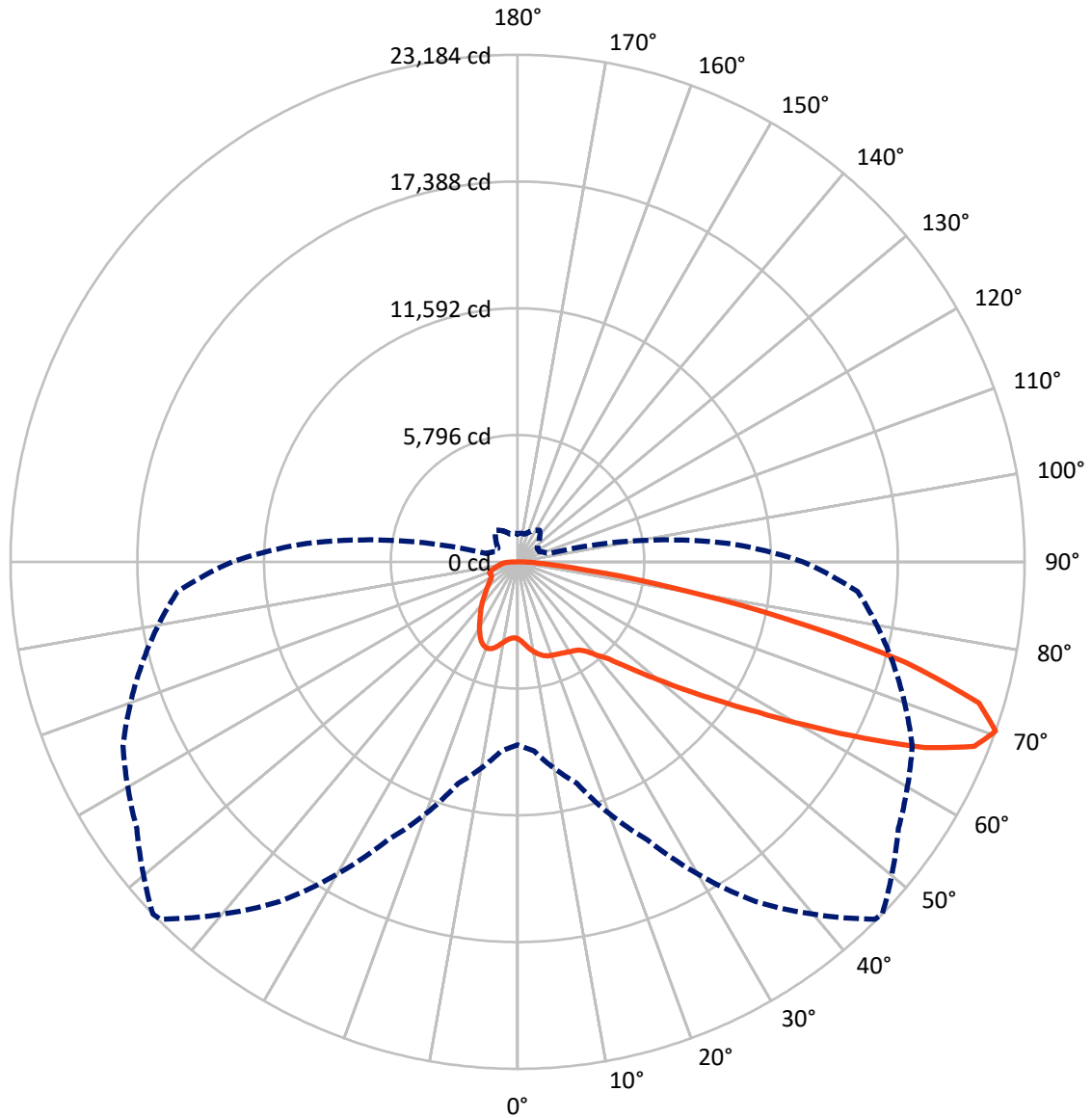
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7918.6	0.0	7918.6
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	26630.7	0.0	26630.7
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	34549.2	0.0	34549.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	358.8	1.0
10°-20°	1195.5	3.5
20°-30°	1993.4	5.8
30°-40°	2828.7	8.2
40°-50°	4160.9	12.0
50°-60°	7046.4	20.4
60°-70°	10002.3	29.0
70°-80°	6076.5	17.6
80°-90°	886.8	2.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	34549.2	100.0
0°-180°	34549.2	100.0

**Coefficient of Utilization**

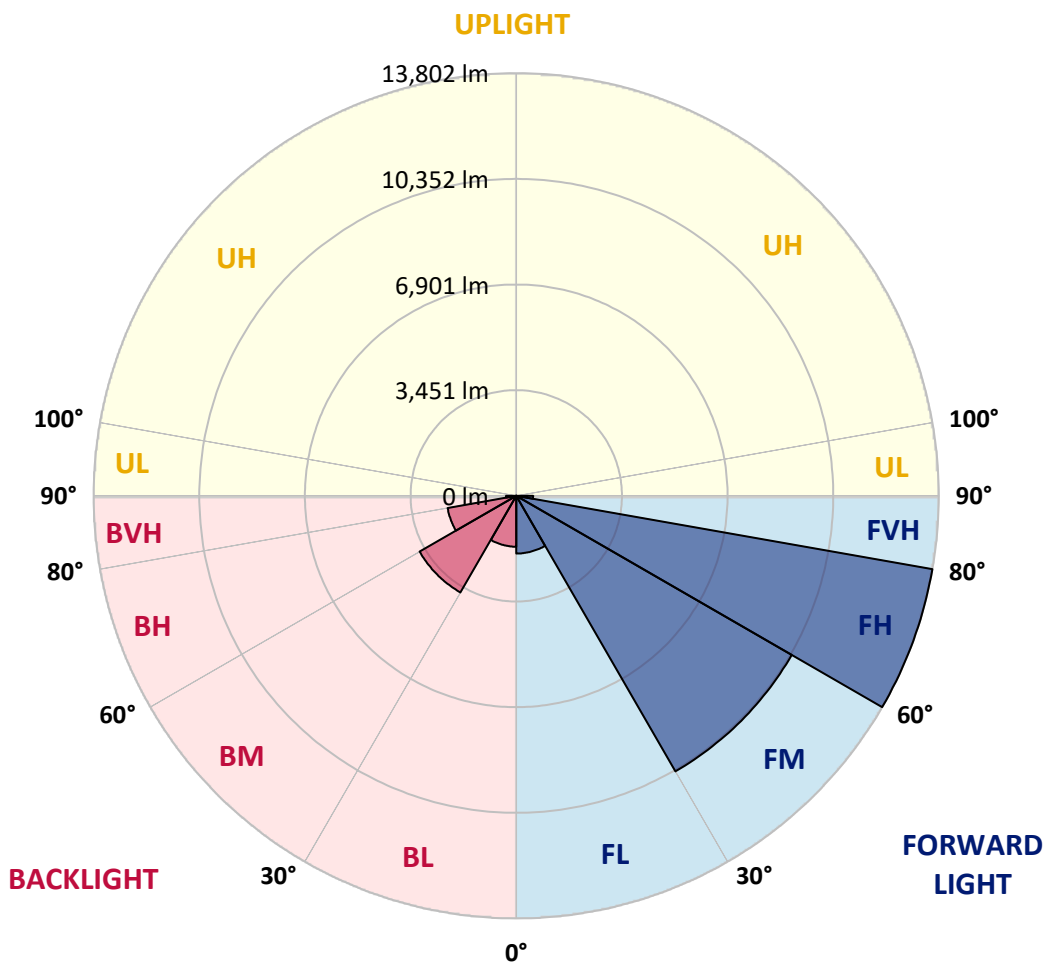


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1885.2	5.5			
FM (30°-60°)	10390.9	30.1			
FH (60°-80°)	13802.2	39.9			G5
FVH (80°-90°)	552.4	1.6			G4/750
BL (0°-30°)	1662.5	4.8	B3/2500		
BM (30°-60°)	3645.1	10.6	B3/5000		
BH (60°-80°)	2276.5	6.6	B3/2500		G3/2500
BVH (80°-90°)	334.4	1.0			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3519.9	3519.9	3519.9	3519.9	3519.9	3519.9	3519.9	3519.9	3519.9	3519.9	3519.9
2.5°	3696.1	3698.4	3703.2	3691.4	3658.2	3648.8	3645.2	3611.0	3588.5	3555.3	3527.0
5°	3991.7	3994.0	3986.9	3953.9	3880.5	3826.1	3821.4	3743.3	3672.4	3596.7	3540.0
7.5°	4300.2	4303.8	4281.3	4218.7	4115.8	4021.2	4015.3	3908.9	3801.3	3686.6	3601.5
10°	4573.3	4559.2	4522.6	4435.0	4313.3	4197.4	4192.6	4081.5	3957.4	3819.1	3705.5
12.5°	4755.5	4743.6	4696.3	4589.9	4456.3	4350.0	4340.5	4237.6	4117.0	3965.6	3829.7
15°	4856.0	4864.3	4800.4	4679.8	4549.8	4459.9	4451.6	4378.3	4270.7	4118.2	3962.1
17.5°	4868.9	4876.1	4814.6	4695.2	4588.7	4527.2	4523.7	4475.2	4397.2	4250.6	4087.4
20°	4793.3	4798.0	4747.2	4649.1	4579.3	4560.4	4559.2	4537.9	4480.0	4350.0	4191.5
22.5°	4683.4	4686.9	4650.2	4579.3	4555.6	4585.2	4593.5	4585.2	4543.8	4422.1	4273.1
25°	4656.2	4653.7	4615.9	4543.8	4563.9	4626.6	4637.2	4640.8	4612.4	4506.0	4377.1
27.5°	4787.4	4779.1	4707.0	4591.1	4604.1	4679.8	4694.0	4728.3	4710.6	4617.1	4495.4
30°	5166.9	5152.8	5004.9	4770.8	4707.0	4746.0	4763.7	4818.2	4821.7	4743.6	4652.6
32.5°	5807.7	5790.0	5525.2	5106.7	4880.8	4813.4	4830.0	4911.5	4955.3	4895.0	4796.8
35°	6617.7	6597.6	6249.9	5677.7	5171.7	4942.2	4954.1	5019.1	5106.7	5021.5	4891.5
37.5°	7461.9	7413.4	7078.8	6349.2	5634.0	5217.8	5217.8	5226.1	5267.4	5090.1	5002.6
40°	8301.4	8252.9	7950.2	7139.1	6232.2	5651.7	5624.5	5441.3	5408.1	5255.6	5226.1
42.5°	9081.8	9067.5	8889.0	8031.8	6934.5	6078.5	6040.7	5729.8	5736.8	5642.2	5643.4
45°	9911.8	9911.8	9766.3	8932.7	7752.7	6764.2	6726.4	6268.8	6339.8	6296.1	6401.3
47.5°	10589.3	10610.5	10590.4	9871.5	8704.6	7635.7	7567.1	7016.1	7214.7	7364.9	7671.2
50°	11280.9	11314.0	11317.6	10901.3	9855.0	8671.4	8593.4	8008.1	8451.6	8881.9	9483.7
52.5°	12284.8	12359.2	12062.4	11928.8	11264.4	9901.1	9824.3	9283.9	10024.1	10628.2	11665.2
55°	13215.2	13150.2	12938.5	13021.4	12773.0	11301.0	11243.0	10769.0	11776.3	12561.5	13908.1
57.5°	13718.9	13714.2	13927.0	14281.7	14400.0	13027.2	12978.8	12517.7	13752.1	14342.0	16013.9
60°	14310.2	14318.4	14845.7	15650.9	16138.0	15176.8	15155.5	14805.6	15671.1	16004.5	17665.7
62.5°	14392.9	14541.8	15449.9	16835.7	17765.0	17688.1	17735.5	16866.4	17387.8	17331.1	18898.9
65°	13441.1	13637.4	15280.8	17193.9	19382.4	20434.8	20478.5	18939.1	18741.6	18465.0	19339.9
67.5°	11490.2	11781.1	13566.4	16414.7	19915.7	22464.8	22526.3	20545.9	19864.9	18849.2	18278.2
70°	8361.7	8684.4	10481.7	14019.2	18965.1	23114.0	23183.7	21256.5	19907.5	17755.5	15603.6
72.5°	5051.0	5304.0	6785.6	10320.8	16006.8	21931.6	22055.8	20355.5	18175.2	15039.6	11522.1
75°	2218.1	2383.6	3281.1	5947.3	11459.4	18145.7	18300.6	17423.3	14767.7	10929.8	6810.4
77.5°	944.7	992.0	1345.5	2583.5	6478.2	12399.5	12612.2	12730.5	10019.4	5947.3	2877.8
80°	588.8	607.7	761.4	1169.4	3031.5	6964.2	7193.5	7490.3	4975.4	2186.2	1005.0
82.5°	358.3	379.5	506.0	707.0	1578.4	3156.9	3266.8	3476.2	1930.8	944.7	520.3
85°	215.2	230.6	309.7	447.0	898.6	1241.5	1240.3	1371.5	909.2	607.7	274.3
87.5°	102.8	114.7	165.5	231.8	452.8	465.9	436.3	494.2	552.1	398.4	138.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3519.9	3519.9	3519.9	3519.9	3519.9	3519.9	3519.9	3519.9	3519.9	3519.9	3519.9
2.5°	3517.5	3512.8	3497.4	3485.6	3483.2	3476.2	3470.2	3473.7	3478.5	3479.7	3479.7
5°	3516.3	3503.4	3483.2	3475.0	3485.6	3499.8	3517.5	3541.2	3555.3	3566.0	3573.1
7.5°	3573.1	3548.3	3525.8	3521.1	3542.4	3580.2	3620.4	3670.0	3704.3	3728.0	3732.7
10°	3667.7	3636.9	3614.5	3619.2	3657.1	3711.5	3768.2	3832.0	3884.1	3915.9	3918.4
12.5°	3776.5	3746.9	3725.6	3745.8	3808.4	3874.6	3933.7	3989.3	4036.6	4068.5	4068.5
15°	3901.8	3880.5	3855.7	3901.8	3986.9	4046.1	4070.9	4098.1	4124.1	4147.7	4143.0
17.5°	4022.4	4002.3	3989.3	4043.7	4132.3	4159.5	4143.0	4122.9	4122.9	4135.9	4138.3
20°	4126.5	4108.7	4117.0	4170.2	4216.3	4188.0	4126.5	4062.6	4036.6	4043.7	4050.7
22.5°	4217.5	4209.2	4234.1	4258.8	4225.8	4126.5	4012.9	3926.7	3894.7	3892.4	3894.7
25°	4323.9	4322.8	4353.5	4308.5	4161.9	3978.6	3826.1	3742.2	3724.4	3738.7	3762.2
27.5°	4456.3	4469.3	4484.7	4320.3	4031.8	3755.2	3600.2	3542.4	3560.1	3594.4	3616.8
30°	4625.4	4660.9	4627.7	4290.8	3845.1	3499.8	3352.0	3335.4	3383.9	3432.4	3456.0
32.5°	4789.7	4845.4	4765.0	4213.9	3603.9	3229.0	3114.3	3109.6	3168.8	3216.0	3249.1
35°	4922.2	5032.1	4867.8	4061.5	3324.8	2979.6	2895.6	2863.7	2885.0	2940.5	2978.3
37.5°	5094.8	5278.1	4938.7	3828.5	3022.1	2773.8	2675.7	2602.4	2583.5	2605.9	2624.8
40°	5410.5	5652.9	4971.9	3503.4	2726.5	2568.1	2468.8	2361.2	2286.7	2232.3	2233.5
42.5°	5926.0	6141.2	4950.5	3108.4	2453.4	2367.1	2254.7	2130.6	2010.0	1887.0	1877.6
45°	6763.1	6867.2	4886.7	2689.8	2213.4	2156.6	2051.4	1927.3	1766.5	1626.9	1613.9
47.5°	8102.7	7872.1	4787.4	2324.5	2001.7	1978.0	1881.2	1738.1	1567.8	1455.4	1446.0
50°	9929.5	9322.9	4738.9	2033.7	1814.9	1822.0	1742.8	1591.5	1430.7	1347.9	1338.4
52.5°	12114.5	11012.5	4832.3	1809.0	1664.8	1689.6	1630.5	1488.6	1353.8	1288.8	1279.3
55°	14381.0	12762.4	4932.8	1645.9	1522.9	1571.3	1551.2	1434.2	1312.5	1252.1	1243.8
57.5°	16321.4	14068.9	4731.8	1513.4	1396.4	1472.0	1489.7	1399.9	1291.1	1236.7	1227.3
60°	17542.7	14595.1	4204.4	1389.3	1295.9	1392.8	1454.3	1390.4	1299.4	1294.7	1287.6
62.5°	18122.0	14549.0	3413.5	1291.1	1233.2	1358.6	1480.3	1443.6	1394.0	1436.5	1440.1
65°	17862.0	13853.7	2542.1	1226.1	1188.3	1371.5	1558.4	1544.1	1421.2	1463.7	1469.7
67.5°	16149.9	12194.9	1882.3	1169.4	1138.6	1408.2	1700.3	1577.3	1368.0	1398.7	1379.8
70°	13053.3	9668.2	1451.9	1105.5	1087.8	1403.5	1764.1	1557.2	1310.0	1317.1	1266.3
72.5°	9001.4	6592.8	1181.2	1046.4	1014.5	1279.3	1719.2	1507.5	1261.6	1207.2	1139.8
75°	4895.0	3538.8	1003.8	984.9	885.6	1123.3	1636.4	1472.0	1217.8	1145.7	1107.9
77.5°	1926.1	1468.5	871.4	901.0	774.5	992.0	1544.1	1404.7	1157.5	1063.0	1044.0
80°	786.2	749.6	722.4	779.1	665.7	867.8	1433.0	1325.4	1085.4	986.1	948.2
82.5°	445.7	465.9	561.6	614.8	540.3	799.3	1379.8	1261.6	999.1	883.2	838.3
85°	228.2	273.1	391.3	441.0	397.3	679.8	1271.0	1104.3	801.6	676.3	679.8
87.5°	109.9	152.5	247.1	276.7	257.8	491.9	949.4	800.5	624.3	494.2	478.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)